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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/041:,265	03/24/2003	Henning Althofer	50572	9436	
7590 04/20/2004			EXAMINER		
KEIL & WEINKAUF			FRONDA, CI	FRONDA, CHRISTIAN L	
1101 Connecticut Avenue NW Washington, DC 20036			ART UNIT	PAPER NUMBER	
	2000		1652		
			DATE MAILED: 04/20/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-90C (Rev. 10/03)

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15	Application No.	Applicant(s)			
	10/049,265	ALTHOFER ET AL.			
Office Action Summary	Examiner	Art Unit			
	Christian L Fronda	1652			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	86(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from Cause the application to become ABANDONE	nely filed s will be considered timely. the mailing also 4320			
Status					
1) Responsive to communication(s) filed on	_ ·				
<u> </u>	action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4) Claim(s) 1-21 is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6) Claim(s) is/are rejected. 7) Claim(s) is/are objected to.					
8)⊠ Claim(s) <u>1-21</u> are subject to restriction and/or el	ection requirement				
Application Papers					
9) The specification is objected to by the Examiner.		vaminor			
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:					
1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s)					
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)					
Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)/Mail Date 5) Notice of Informal Pat 6) Other:	·			
S. Palent and Trademark Office	·				

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DETAILED ACTION

Election/Restriction

1. Restriction is required under 35 U.S.C. 121 and 372. This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1. In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claims 1-5, drawn to a monocellular or multicellular organism.

Group II, claims 6-13, drawn to an isocitrate dehydrogenase gene, vector, and transformed organism containing said isocitrate dehydrogenase gene.

Group III, claim 14, drawn to a process for the production of riboflavin.

Group IV, claims 15-18, drawn to a process for preparing a riboflavin-producing monocellular or multicellular organism.

Group V, claim 19, drawn to a use of a microorganism for producing riboflavin.

Group VI, claim 20, drawn to a use of an isocitrate dehydrogenase gene for preparing an organism.

Group VII, claim 21, drawn to a use of a vector for preparing an organism.

The inventions listed as Groups I-VII do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

The claims are not linked by a special technical feature because they do not constitute an advance over the prior art. Birgett et al. cited in the Search Report of PCT/EP00/07370 teach that IDP3 encodes a NADP-dependent isocitrate dehydrogenase which is an "allelic variation" of the claimed isocitrate dehydrogenase gene recited in claim 6 or is a "substantially equal working DNA sequence" of the claimed isocitrate dehydrogenase gene recited in claim 7.

Because the inventions are distinct for the reasons given above and have required a separate status in the art as shown by their recognized divergent subject matter, restriction for examination purposes as indicated is proper.

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- 2. Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).
- 3. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).
- 4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christian L Fronda whose telephone number is (571)272-0929. The examiner can normally be reached Monday-Friday between 9:00AM 5:00PM. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ponnathapura N Achutamurthy can be reached on (571)272-0928. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

CLF

PONNATHAPU ACHUSAMURTHY SUPERVISORY PATENT EXAMINER TECHNOLOGY CONTER 1500